

ABSTRACT

A method and apparatus for enhancing the performance of
5 a network by performing selective spoofing. Selective
spoofing provides the ability to discriminate among
different connections and only allocate spoofing resources
to those connections for which spoofing will actually
improve performance. The selective spoofing functions
10 described are applicable to a wide variety of communication
links, including both slow and fast links, high latency
links, and links with low and high error rates. The
selective spoofing functions may be implemented either alone
or in combination with other performance enhancing features,
15 such as, spoofing the conventional TCP three-way handshake,
local data acknowledgement, multiplexing multiple
connections across a single connection, data
compression/encryption, prioritization, and path selection.
The selective spoofing features described are particularly
20 useful for links with high latency and/or high bit error
rates.